Application No.: 10:538,522 Amendment dated: November 26, 2007 Reply to Office Action of June 25, 2007

Attorney Docket No.: 21295.0106US1 (E0664US)

Amendments to the Specification

Please replace paragraph [0012] with the following amended paragraph:

[0012] Because the attenuating element according to the invention is arranged in the illumination light beam on a plane that corresponds optically to the pupil plane of the lens--that is, on a Fourier plane of the-pupil plane of the lens, which Fourier plane is to the focal plane of the imaging optics: lens--the structure of the attenuation element, which can, for example, have a grate or sieve structure, is not visible in the sample plane being observed. The sample is consequently not illuminated with a sieve pattern or a pinhole pattern; rather, illumination is reduced over the entire image field. At the same time, undesired changes in light power are avoided because the attenuation element acts over the entire cross-section of the illumination light beam--and not just over marginal areas.

Please replace paragraph [0023] with the following amended paragraph:

[0023] FIG. I shows a reflected-light microscope according to the invention with a light source 1 for generating an illumination light beam 3. The illumination light beam 3 is focused by an optic 5, reaching a dichroic beam splitter 15 that reflects the illumination light beam 3 to a lens 17 by way of a storage mechanism 7, in which several attenuation elements are arranged that can be introduced into the illumination light path, one attenuation element 11 and a further attenuation element 13, both of which are implemented as fine-meshed grates, and then passes through an imaging optic 27. The lens 17 focuses the illumination light beam 3 on to the sample 19, which is marked with fluorescent dyes. The detection light 21 emitted by the sample reaches the beam splitter 15 by way of the lens 17, passes through it, a tube optic 23, and the ocular 25 before reaching the eye 73 of the user. The storage mechanism 7 is implemented as a turret disk 31 that holds the attenuation elements 11, 13. By rotating the turret disk 31, one of the attenuation elements 11, 13, which afford different degrees of attenuation, can be introduced into the illumination beam path, which permits the degree of attenuation to be

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adjusted. The attenuation elements 11, 13 are arranged on an optically corresponding plane 9 to the pupil plane 29 of the lens 17, which optically corresponding plane 9 is a focal plane of is generated by the imaging optic 27. The turret disk 31 is driven by a motorized driver 33 that is implemented as a stepping motor 35. The stepping motor 35 is controlled by an electronic control mechanism 37. The lens 17 is screwed into a lens turret 55 that holds another lens 41, which is driven by a motor 39 that is also controlled by an electronic control device. The beam splitter 15 is arranged in a beam splitter filter module 47 that exhibits an excitation filter 43 and a detection filter 45. The beam splitter filter module 47 is arranged in a carousel 49 that permits simple changing of the beam splitter filter module 47 by rotating it around the shaft 51. The carousel 49 is driven by another motor 53 that [[he]] is controlled by [[an]] the electronic control mechanism 37.

Please replace paragraph [0026] with the following amended paragraph:

[0026] FIG. 2 shows a storage mechanism 7 that is implemented in the form of a turret disk 31 and exhibits an attenuation element 11 that has a line grating, as well as other attenuation elements 57, 59, 61, 63, and 65 that have a honeycomb structure or pinhole pattern. In addition, a blocking position 67 that is implemented as a black metal plate [[71]], and a neutral position 69, that is, a passage opening in the turret disk 31, are provided. Further blocking positions can be provided between all of the attenuation elements, which would accelerate adjustment and avoid the covering of several attenuation elements and thus unintended flashes. The turret disk 31 is borne by and rotatable around a rotational axis 75.

Please replace paragraph [0063] with the following amended paragraph:

[0063] [[71]] 67 Black-colored metal disk